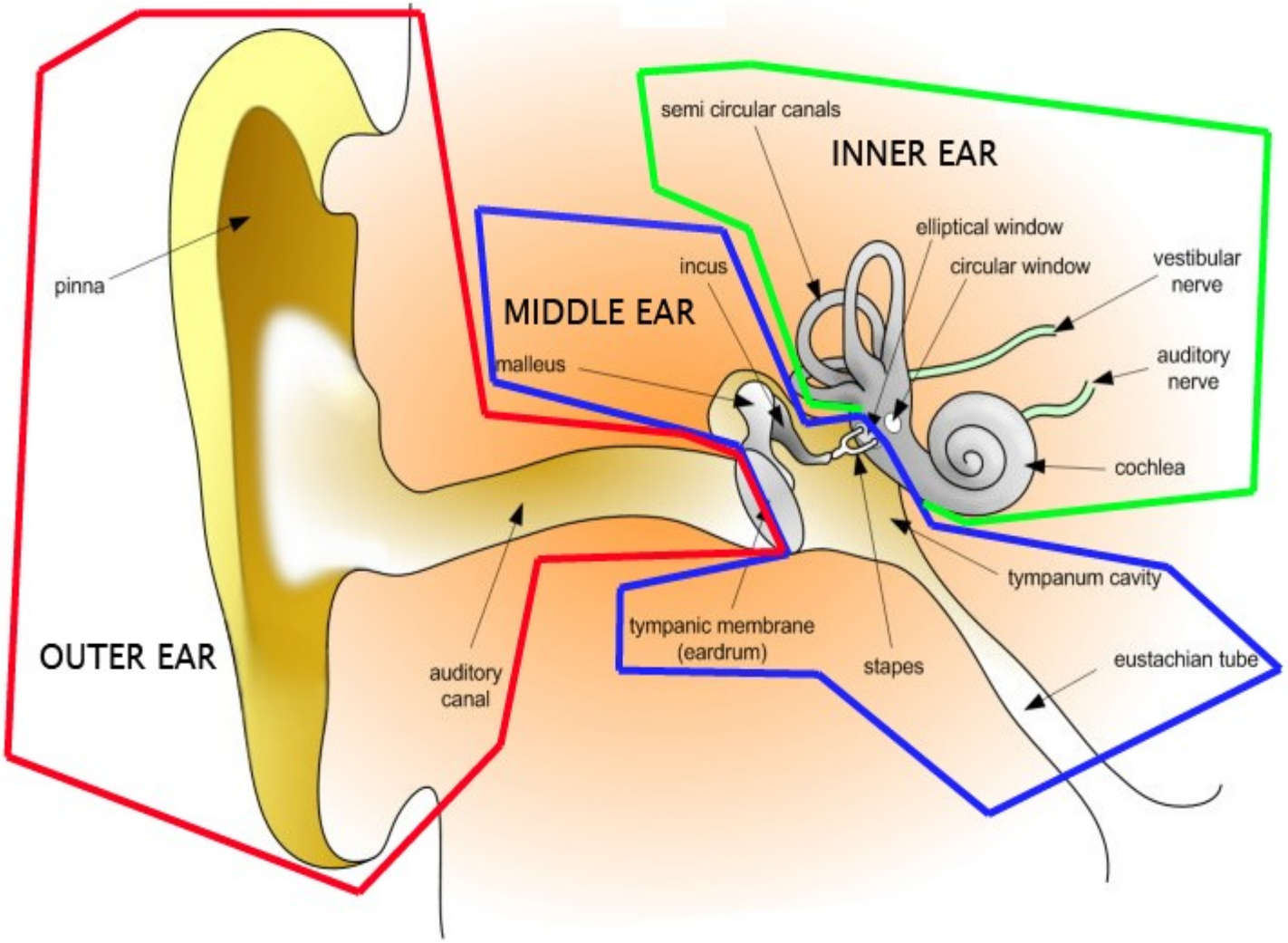
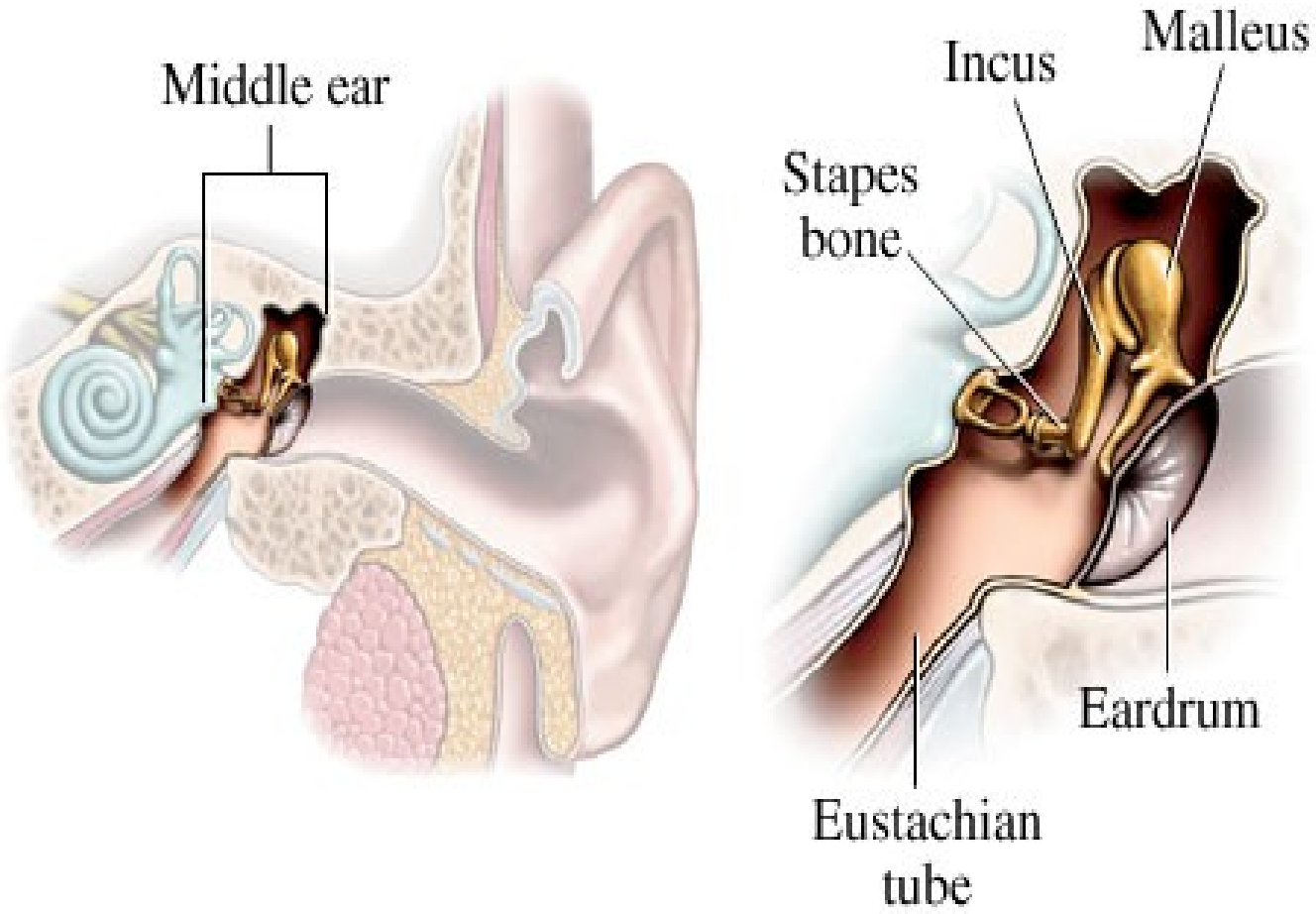
به نام خدا

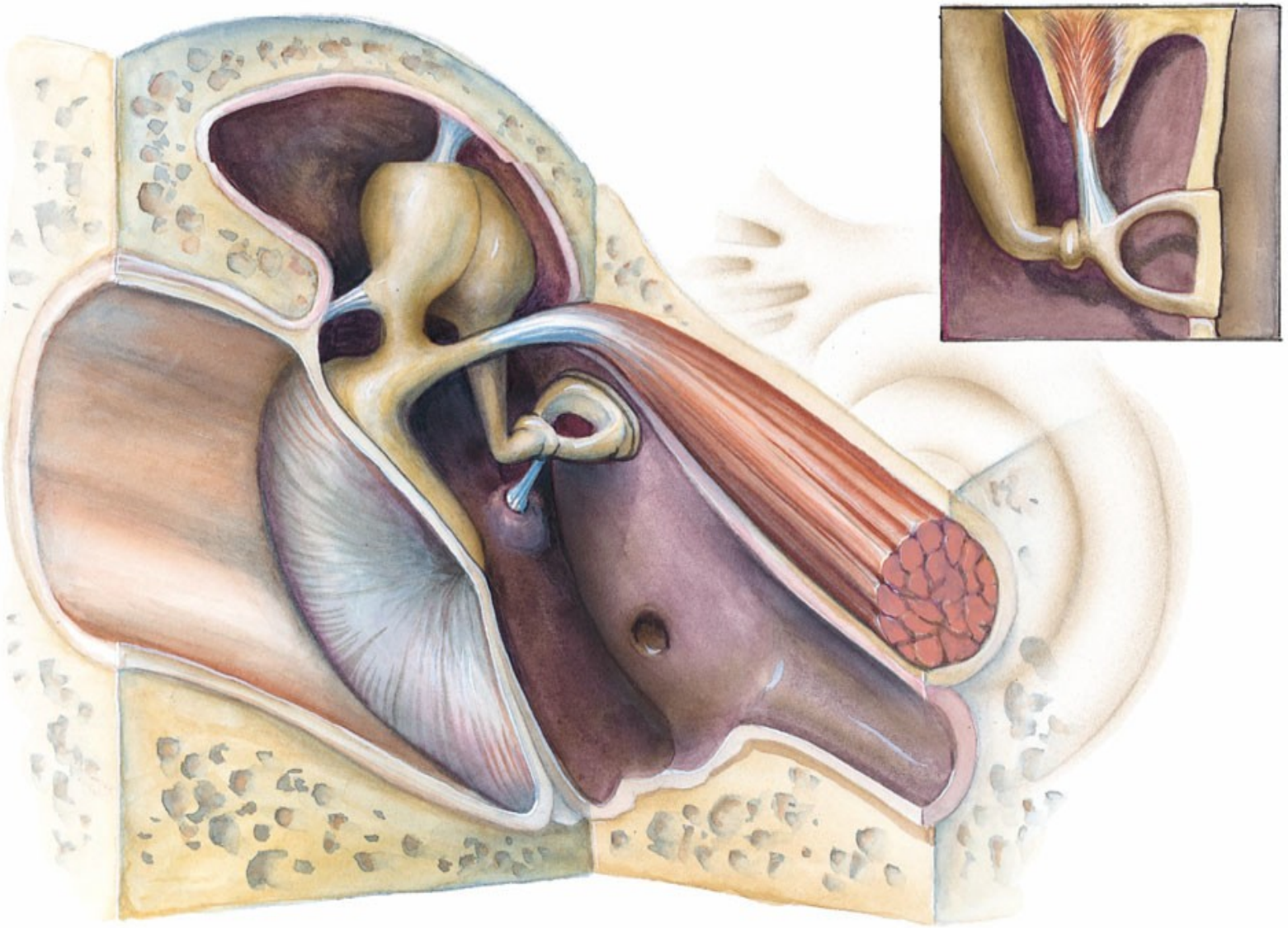
سمینار فیزیولوژی CNS

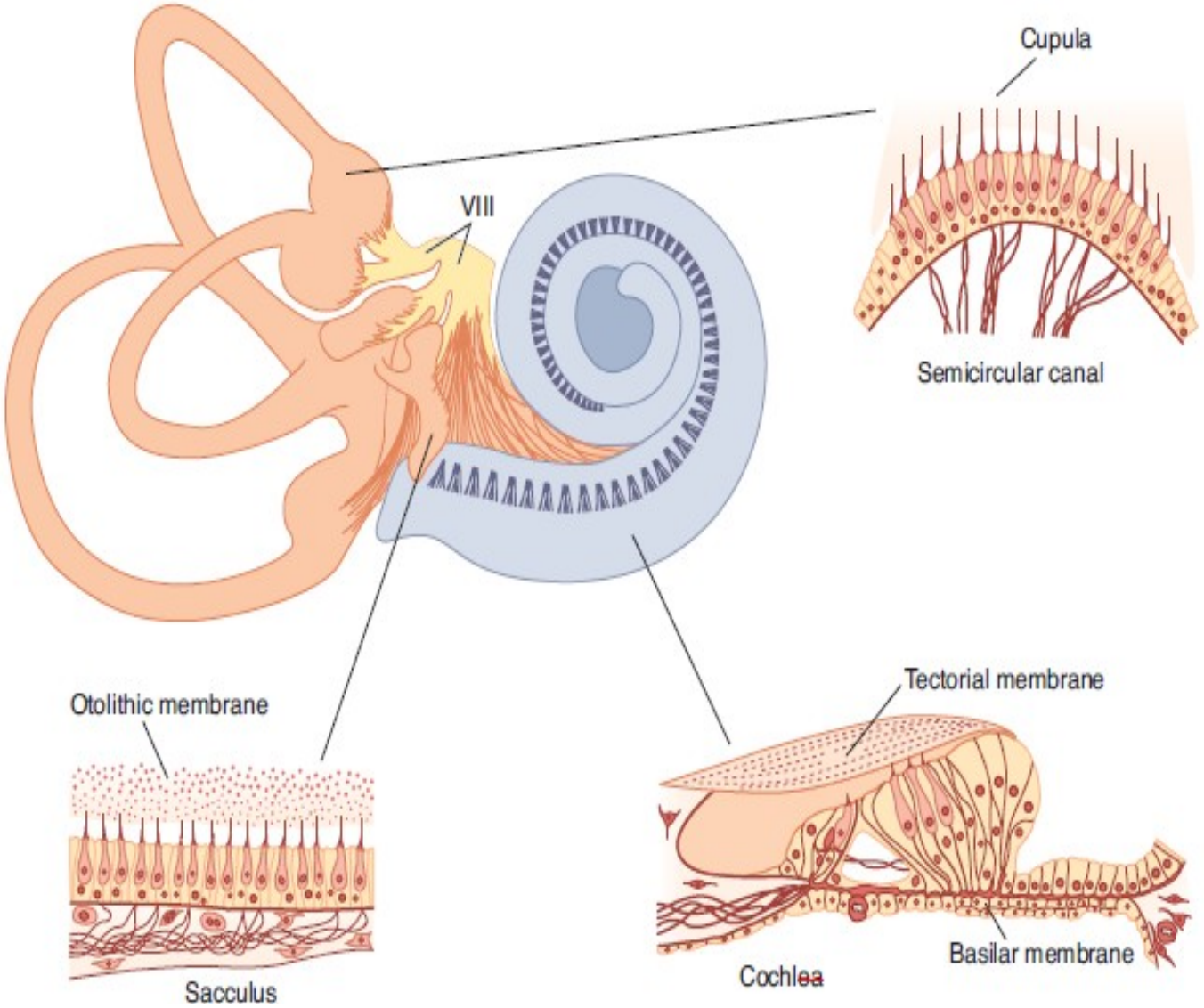
مبحث: شنوائی

5شنبه 1390/9/24

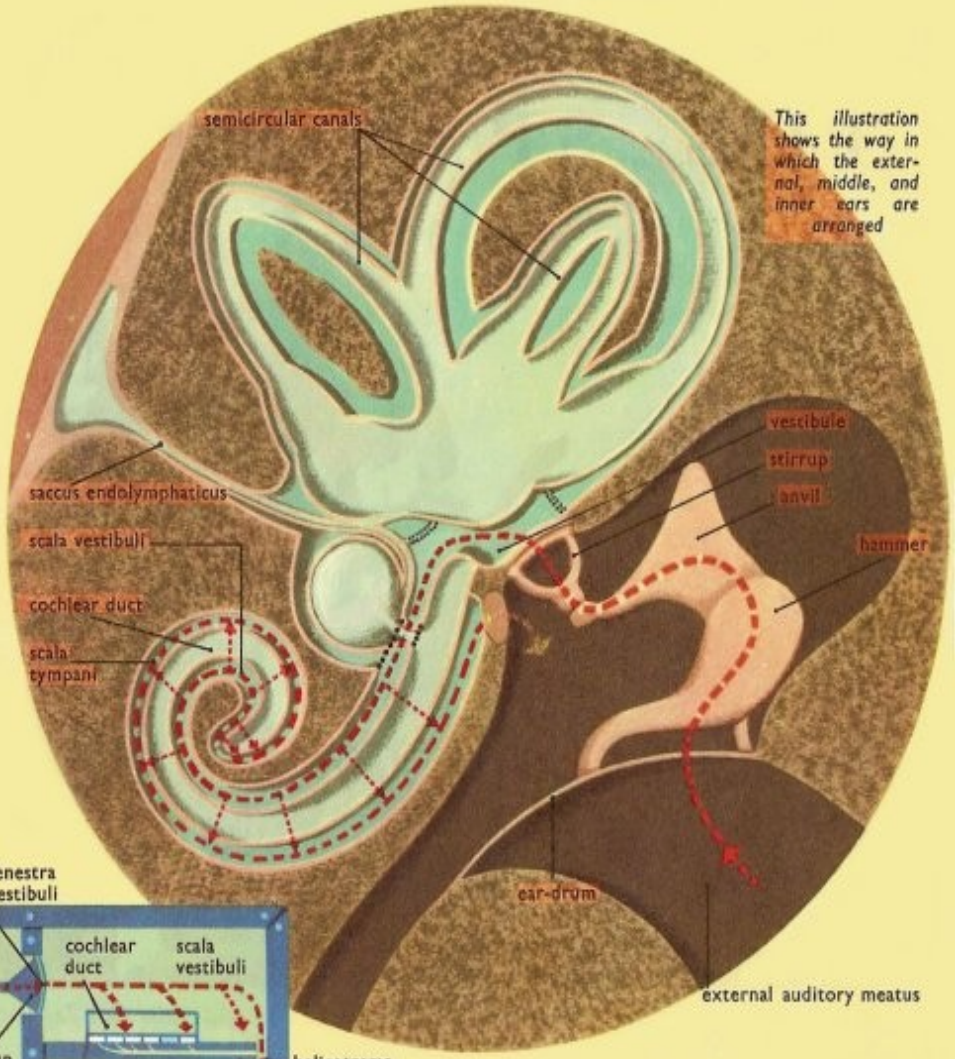

semi circular canals
INNER EAR
elliptical window
circular window
vestibular nerve
incus
MIDDLE EAR
auditory nerve
malleus
pinna
cochlea
tympanum cavity
tympanic membrane (eardrum)
stapes
eustachian tube
OUTER EAR
auditory canal

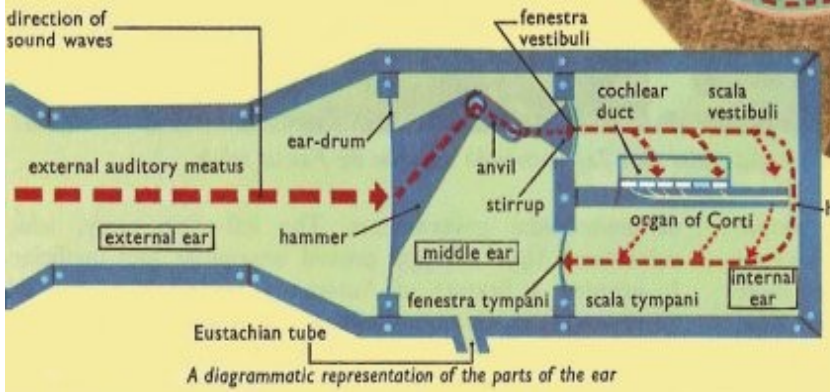

Middle ear
Incus
Malleus
Stapes bone
Eardrum
Eustachian tube



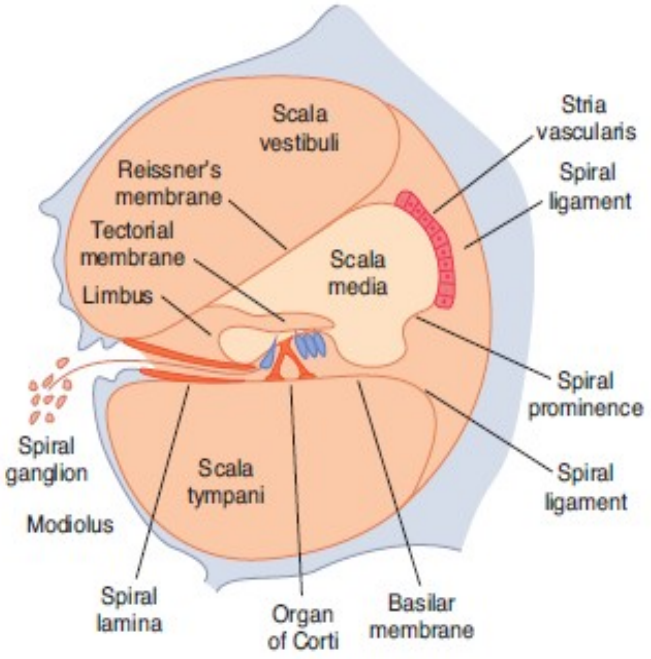

Cupula
VIII
Semicircular canal
Otolithic membrane
Tectorial membrane
Sacculus
Cochlea
Basilar membrane

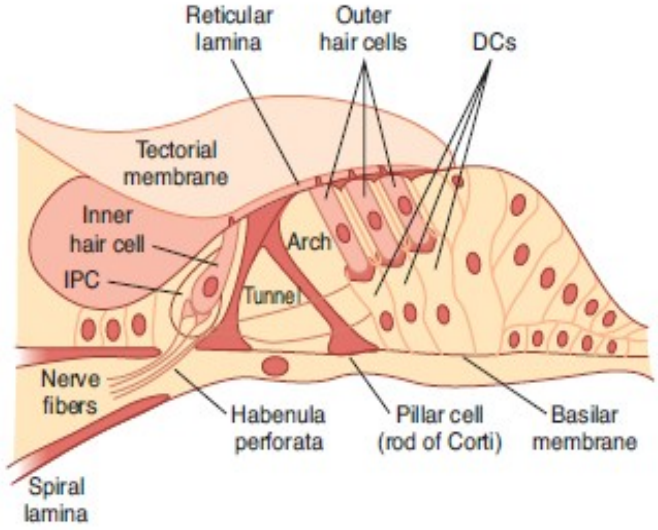
The route along which sound vibrations travel from the external auditory meatus to the organ of Corti (shown by dashed red lines)

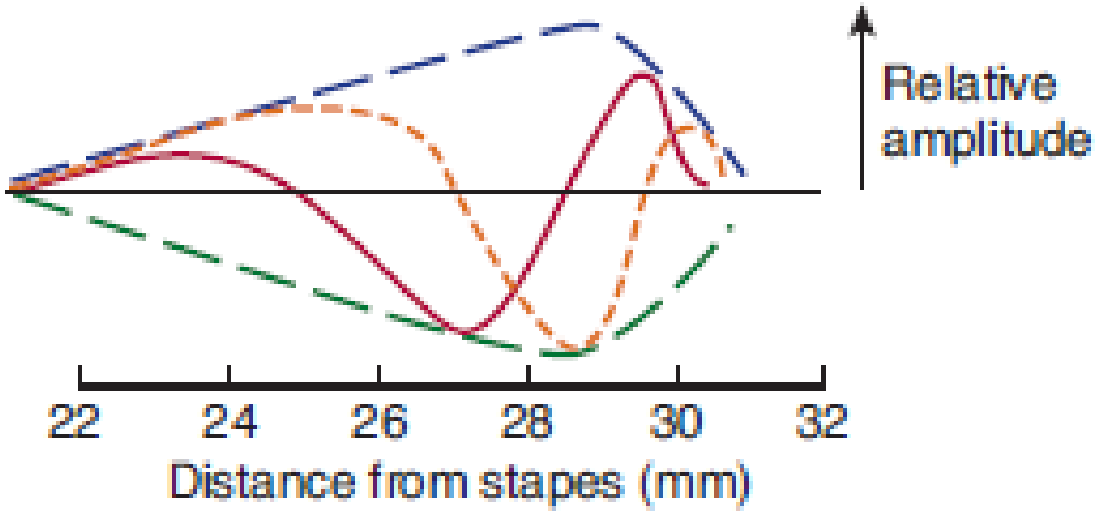


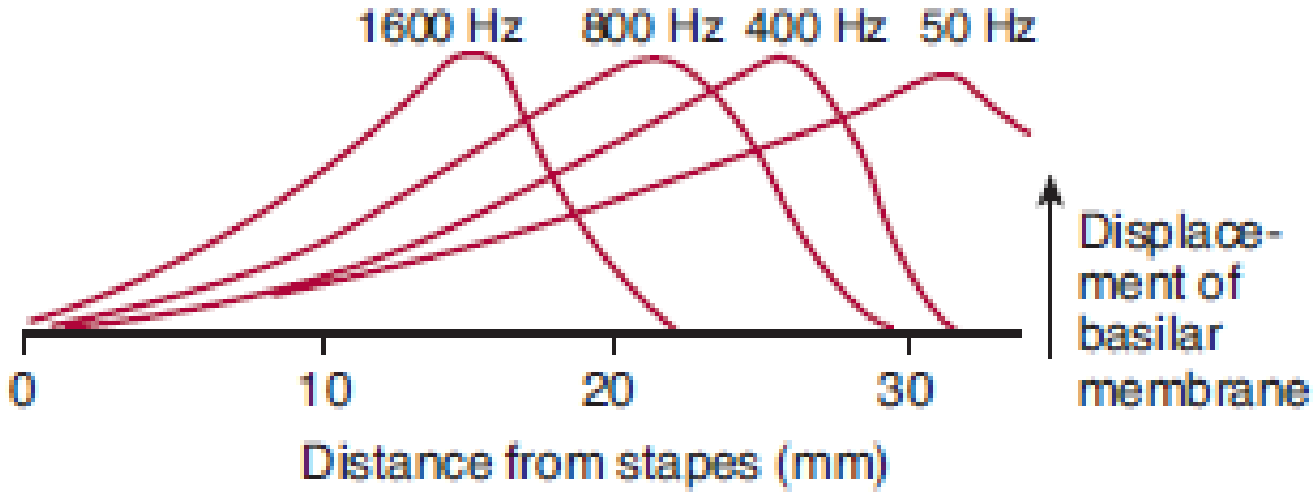


A diagrammatic representation of the parts of the ear


Scala vestibuli
Stria vascularis
Reissner's membrane
Spiral ligament
Tectorial membrane
Scala media
Limbus
Spiral prominence
Spiral ganglion
Scala tympani
Spiral ligament
Modiolus
Spiral lamina
Organ of Corti
Basilar membrane


Reticular lamina
Outer hair cells
DCs
Tectorial membrane
Inner hair cell
Arch
IPC
Tunnel
Nerve fibers
Habenula perforata
Pillar cell (rod of Corti)
Basilar membrane
Spiral lamina


Relative amplitude
22
24
26
28
30
32
Distance from stapes (mm)


1600 Hz
800 Hz
400 Hz
50 Hz
Displace-ment of basilar membrane
0
10
20
30
Distance from stapes (mm)